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1 [Is information system a science? an inquiry into the nature of the information systems discipline](#) 82%



Deepak Khazanchi , Bjørn Erik Munkvold

ACM SIGMIS Database June 2000

Volume 31 Issue 3

The information systems (IS) discipline is apparently undergoing an identity crisis.

Academics question the need for IS departments in colleges, stating the absence of a core for the field and its integration within other business functions as a basis for its elimination. At the same time, many practitioners, as reflected in the U.S. government's recent IT labor shortage report, continue to ignore IS as a distinct field of study. This article briefly outlines these and other challenges and ar ...

2 [Research papers: information security and risk management: An interpretive study of software risk management perspectives](#) 80%



Keshnee Padayachee

Keshnee Padayachee

**Proceedings of the 2002 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology**  
September 2002

This research proposes a framework for a field investigation of risk management in the context of a particular software development organization. It was experimentally tested within several companies. This framework was designed to provide an understanding of software development risk phenomena from a project manager's perspective and to give an indication of how this perspective affects their perception. This study can be used as a precursor to improving research into the creation of new softwa ...

- 3 The effect of a priori views on the social implications of computing: the case of office automation 77%  
R. A. Hirschheim  
**ACM Computing Surveys (CSUR)** June 1986  
Volume 18 Issue 2  
Office automation impact has received considerable attention in the literature recently. Unfortunately, that which has appeared is diverse and contradictory. The relevant literature is reviewed, summarized, and placed in a framework containing three positions on office automation impact: optimism, pessimism, and relativism. The basic assumptions and empirical support for each position are noted and analyzed. It is proposed that these positions are based on a number of a priori views which g ...
- 4 Cyc: toward programs with common sense 77%  
Douglas B. Lenat , R. V. Guha , Karen Pittman , Dexter Pratt , Mary Shepherd  
**Communications of the ACM** August 1990  
Volume 33 Issue 8  
Cyc is a bold attempt to assemble a massive knowledge base (on the order of 108 axioms) spanning human consensus knowledge. This article examines the need for such an undertaking and reviews the authors' efforts over the past five years to begin its construction. The methodology and history of the project are briefly discussed, followed by a more developed treatment of the current state of the representation language used (epistemological level), techniques for efficient ...
- 5 Concept-context-design: a creative model for the development of interactivity 77%  
Andruid Kerne  
**Proceedings of the fourth conference on Creativity & cognition** October 2002  
Existing CHI interaction models are focused on understanding the needs of users. They begin with user tasks and user feedback. While the involvement of users is critical for human computer interaction development, so is the imagination the artist-scientist-designer-developer. We constitute a legitimate source of impetus in the definition and development of interactive artifacts, as well as functioning as interpreters, measurers, and respondents. The development of interactivity is a fundamentall ...
- 6 Papers: Designing for accountability 77%  
Sara Eriksén  
**Proceedings of the second Nordic conference on Human-computer interaction** October 2002  
Accountability is an important issue for design, in more than one sense. In software engineering literature, accountability is mainly seen as a goal for quality assurance of design processes. In ethnomethodological studies, accountability is a central concept for understanding how people organize their everyday actions and interactions. Where the different research approaches meet, in Human Computer Interaction (HCI) and Computer Supported Cooperative Work (CSCW) literature, new and hybrid under ...
- 7 Digital library communities and change: Trust and epistemic communities in biodiversity data sharing 77%  
Nancy A. Van House

**Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries July 2002**

Trust is a key element of knowledge work: what we know depends largely on others. This paper discusses the concepts of communities of practice and epistemic cultures, and their implication for design of digital libraries that support data sharing, with particular reference to practices of trust and credibility. It uses an empirical study of a biodiversity digital library of data from a variety of sources to illustrate implications digital library design and operation. It concludes that diversity ...

**8 Research contributions: Using an adapted grounded theory approach for inductive theory** 77%**building about virtual team development**

Suprateek Sarker , Francis Lau , Sundeep Sahay

**ACM SIGMIS Database** December 2001

Volume 32 Issue 1

This paper outlines how the grounded theory methodology was adapted to develop a process model of collaboration in virtual teams. The data analysis was conducted using an adapted version of open coding, axial coding, and selective coding procedures offered by Strauss and Corbin (1990). In applying the grounded theory procedures, the objective was to stay true to the goals and spirit of each coding procedure, while modifying details of procedural steps that were too mechanistic or impractical. Th ...

**9 Granular partitions and vagueness** 77%**Thomas Bittner , Barry Smith**

**Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001** October 2001

There are some who defend a view of vagueness according to which there are intrinsically vague objects or attributes in reality. Here, in contrast, we defend a view of vagueness as a semantic property of names and predicates. All entities are crisp, on this view, but there are, for each vague name, multiple portions of reality that are equally good candidates for being its referent, and, for each vague predicate, multiple classes of objects that are equally good candidates for being its ...

**10 Cooperating knowledge-based assistants for the office** 77%**A. Roger Kaye , Gerald M. Karam**

**ACM Transactions on Information Systems (TOIS)** October 1987

Volume 5 Issue 4

This paper presents an approach to high-level support of office workers by embedding office knowledge in a network of distributed cooperating knowledge-based or expert &ldquo;assistants&rdquo; and servers. These knowledge-based systems incorporate both factual and procedural knowledge and are capable of making use of existing conventional office technology. They constitute a form of computer-supported cooperative work. We describe a common architecture for our assistants and servers that in ...

**11 Technical Papers: SEAL: a framework for developing SEmantic PortALs** 77%**Nenad Stojanovic , Alexander Maedche , Steffen Staab , Rudi Studer , York Sure**

**Proceedings of the international conference on Knowledge capture** October 2001

The core idea of the Semantic Web is to make information accessible to human and software agents on a semantic basis. Hence, Web sites may feed directly from the Semantic Web exploiting the underlying structures for human and machine access. We have developed a

domain-independent approach for developing semantic portals, viz. SEAL (SEmantic portAL), that exploits semantics for providing and accessing information at a portal as well as constructing and maintaining the portal. In this paper we foc ...

- 12 Enabling knowledge representation on the Web by extending RDF schema 77%  
Jeen Broekstra , Michel Klein , Stefan Decker , Dieter Fensel , Frank van Harmelen , Ian Horrocks  
**Proceedings of the tenth international conference on World Wide Web** April 2001
- 13 The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve Uncertainty 77%  
Lee D. Erman , Frederick Hayes-Roth , Victor R. Lesser , D. Raj Reddy  
**ACM Computing Surveys (CSUR)** June 1980  
Volume 12 Issue 2
- 14 Proof linking: modular verification of mobile programs in the presence of lazy, dynamic linking 77%  
Philip W. L. Fong , Robert D. Cameron  
**ACM Transactions on Software Engineering and Methodology (TOSEM)** October 2000  
Volume 9 Issue 4  
Although mobile code systems typically employ link-time code verifiers to protect host computers from potentially malicious code, implementation flaws in the verifiers may still leave the host system vulnerable to attack. Compounding the inherent complexity of the verification algorithms themselves, the need to support lazy, dynamic linking in mobile code systems typically leads to architectures that exhibit strong interdependencies between the loader, the verifier, and the linker. To simp ...
- 15 Analysts and clients in conversation: cases in early requirements gathering 77%  
Cathy Urquhart  
**Proceedings of the international conference on Information systems** December 1998
- 16 A methodology for multiple rule system integration and resolutions within a singular knowledge base 77%  
Frank N. Kautzmann  
**Proceedings of the 15th annual conference on Computer Science** February 1987  
Expert Systems which support knowledge representation by qualitative modelling techniques experience problems, when called upon to support integrated views embodying description and explanation, especially when other factors such as multiple causality, competing rule model resolution, and multiple uses of knowledge representation are included. MITRE Corporation, in conjunction with several directorates of NASA at Johnson Space Center, is currently developing a series of prototypes to demons ...
- 17 "Is this document relevant?&hellip;probably&rdquo;: a survey of probabilistic models in information retrieval 77%  
Fabio Crestani , Mounia Lalmas , Cornelis J. Van Rijsbergen , Iain Campbell  
**ACM Computing Surveys (CSUR)** December 1998  
Volume 30 Issue 4  
This article surveys probablistic approaches to modeling information retrieval. The basic

concepts of probabilistic approaches to information retrieval are outlined and the principles and assumptions upon which the approaches are based are presented. The various models proposed in the development of IR are described, classified, and compared using a common formalism. New approaches that constitute the basis of future research are described.

**18** Different perspectives on information systems: problems and solutions

77%



Kalle Lyytinen

**ACM Computing Surveys (CSUR)** March 1987

Volume 19 Issue 1

The paper puts information systems (IS) research dealing with IS problems into perspective. IS problems are surveyed and classified. Using the IS research framework suggested by Ives, Hamilton, and Davis, research into IS problems is classified into several perspectives whose relevance in coping with the problems is discussed. Research perspectives focusing on IS operations environment, IS development process, IS development organization, IS development methods, and IS theories are distingu ...

**19** HCI, natural science and design: a framework for triangulation across disciplines

77%



Wendy E. Mackay , Anne-Laure Fayard

**Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques** August 1997

**20** Ontologies in legal information systems: the need for explicit specifications of domain conceptualisations

77%



Trevor J. M. Bench-Capon , Pepijn R. S. Visser

**Proceedings of the sixth international conference on Artificial intelligence and law** June 1997

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- 21** [The relationship of user-centered evaluation to design: addressing issues of productivity and power](#) 77%  
 Brenda Dervin  
**ACM SIGOIS Bulletin** December 1995  
Volume 16 Issue 2

- 22** [Natural-language retrieval of images based on descriptive captions](#) 77%  
 Eugene J. Guglielmo , Neil C. Rowe  
**ACM Transactions on Information Systems (TOIS)** July 1996  
Volume 14 Issue 3  
We describe a prototype intelligent information retrieval system that uses natural-language understanding to efficiently locate captioned data. Multimedia data generally require captions to explain their features and significance. Such descriptive captions often rely on long nominal compounds (strings of consecutive nouns) which create problems of disambiguating word sense. In our system, captions and user queries are parsed and interpreted to produce a logical form using a detailed theory ...

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